

# What is Chemical Energy?



o **Energy that is available for release from chemical reactions.**

**The chemical bonds in a matchstick store energy that is transformed into thermal energy when the match is struck.**

## Chemical Energy

- Fuel and food are forms of stored chemical energy.



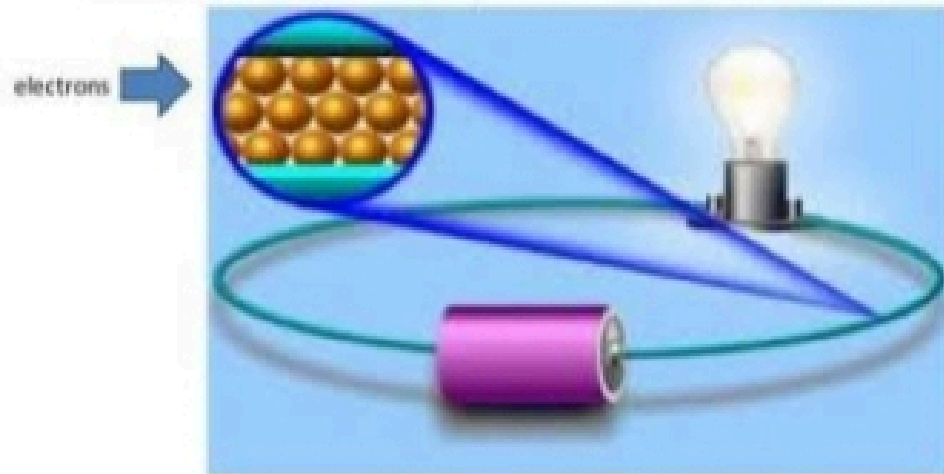
# Chemical Energy

- The food we eat stores energy that is released by digestion.
- Energy can also be released by burning the chemicals in a process called combustion.
- Fuels are chemical compounds that release heat energy by combustion.

✘ *Electrical energy* is the energy of electric charges. In most of the things that use electrical energy, the electric charges flow through wires.

## Electrical Energy

A form of energy created by the movement of electrons.



**Here are some examples of everyday objects that use electrical energy.**

1. Washing machine.
2. Dryer.
3. Television.
4. Cell phone.
5. Laptop.
6. Air conditioning system.
7. Flashlight.
8. Heating system.

# Light Energy



- Light is energy we can see.
- It moves from place to place in waves.
- It comes in many colors.
- All the colors of light put together make white light.

What are some examples of light energy?

There are many **example** we see in our routine life carrying **light energy** like lightened candle, flash **light**, fire, Electric bulb, kerosene lamp, stars and other luminous bodies etc. Each act as a source of **light**. Even a burning candle is an **example** for **light energy**.



## Sources of light

- Anything that gives out light of its own is a source of light.
- The Sun is the Earth's main source of light.
- Can you name other natural sources of light? firefly lightning burning fuel  
fireworks Glow-worm



## Uses of light energy

- Light energy helps us to see.
- Plants use light energy from the sun to make food.



## Home Work

1. The energy of the food that we eat is stored as \_\_\_\_\_ energy.
2. Plants use the \_\_\_\_\_ energy from sun to prepare their food.
3. Write the use of electrical energy.
4. What is meant by Chemical energy?